

DEVAL L. PATRICK GOVERNOR TIMOTHY P. MURRAY LIEUTENANT GOVERNOR JUDYANN BIGBY, MD SECRETARY JOHN AUERBACH

COMMISSIONER

# The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

01/13/2011

Megan Mahoney Assistant District Attorney, Plymouth County

Dear ADA Mahoney,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:



- 1. Drug Analysis Laboratory Receipt.
- 2. Curriculum Vitae for Annie Dookhan & Kate Corbett.
- 3. Control Cards with analytical results for samples #

- 4. Analysis sheets with chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

I, Annie Dookhan, was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely

Annie Khan (Dookhan)

Chemist II

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6631

# PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

# The Commonwealth of Massachusetts Executive Office of Health and Human Services

Department of Public Health State Laboratory Institute

Roston Drug Laboratory

Amherst Drug Laboratory

Tel (617) 983-6622 Fax (617) 983-6625	2 2			T	el (413) 545-2601 ax (413) 545-2608
Boston Hours					Amherst Hours
8:00 - 11:00 2:00 - 4:00	DRUG REG	DRUG RECEIPT			9:00 - 12:00 1:00 - 3:00
City or Department: Brockton	Police Department	Polic	e Reference No.:	, swerns	
Name and Rank of Submitting O	fficer: DONOHUE, PATRICK S	380	DOC # R012862		
Defendant(s) Name (last,first,init	ial):	***************************************			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
To be completed by Submitter  Description of Items Submittee	l ·		To be comp Gross Wei		<i>y Lab Personnel</i> Lab Number
1) PINK TABLETS (QTY: TABLETS (S17766			2,	654	
2) PINK TABLETS (QTY: TABLETS (S17767			1.7	Da_	
			77.00		

	(d) ( 1)		4-28-10
Received By:	<u>ecc</u>	Date:	9 28 70

#### Curriculum Vitae

# Annie Khan (Dookhan)

#### Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry. University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

#### Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.
- \*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Maintenance and repairs of all analytical instruments.
- \*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- \* Responsible for the Quality Control/Quality Assurance program for the drug lab.
- \*Notary Public.
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

OC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- \*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

# Additional Training:

Dept. of Justice - Forensics Professionals.

GLP/GMP course with Massachusetts Biologic Laboratory.

OC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

#### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

# Curriculum Vitae

#### Kate A. Corbett

# Education

Bachelor of Science Degree, CHEMISTRY May 2003 MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

# **Employment**

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

**Drug Analysis Laboratory** 

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

#### Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- > Prepared chemistries used in making sensor beads
- > Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- > Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

No. Date Analyz

City: Brockton Police Dept.

Officer: Detective PATRICK DONOHUE

Def:

No. Cont:

Amount: 2.0

1 Cont. pb

Date Rec'd: 04/28/2010

Gross Wt.: 1.72

No. Analyzed:

Net Weight: 0.20

Subst: TAB

# Tests: , 450

Prelim: Oxycodora & Findings: () KY ( OM)

Folk\_OIG\_PRR\_055851

# Pharmaceutical Analysis Sheet

	Sample	city Brocktor	E.O. weight	2.6	_
			÷	reture	0.3059
	Count 3 Desc	cription: PUIC 10	ucl tablet		
			11.67		
	Ballistic I.D. K 56		_		
	1.D. Source Myrosse	cx (K/56			
•	Final I.D. Oxycoclera	MS chemist Aso x	ac completed t-	10-10	
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	Count Descr	ription:	nce tablet	•	
	Ballistic L.D. VC 56		10 167		
	1.D. Source Musinalson	10/26			
	Final I.D. oxygodina	MS chemist P&O) (Co	e completed &-	21-10	
				•	
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•	Sample #	City	E.O. weight		
	Count	intían			
•	Count Descr	iption.			
	Ballistic I.D.				
			F		
	I.D. Source	panama-1-1-1			
			,	,	
	Final I.D.	MS chemist	completed		
			•		

#### POISINDEX® Product List

#### Oxycodone Hydrochloride

Also known as

Oxycodone HCI

Regulatory-Status:

Schedule II

Ingredients

Active-Ingredient:

Oxycodone Hydrochloride - 10 MG

Excipients:

Starch, Corn

Lactose (Monohydrate) Cellulose, Microcrystalline

Silicon Dioxide

Sodium Starch Glycolate

Stearic Acid

D&C Red No. 27 Aluminum Lake

**Availability & Manufacturing** 

Availability:

**United States** 

Available-Container-Size:

Bottle of 100

Contact:

KVK-Tech

Manufacturer Product

Codes:

UPC 10702-05601

Product ID:

6998103

AAPCC Code:

037705 - Oxycodone Alone or in Combination (Excluding Combination Products with

Acetaminophen or Acetylsalicylic Acid)

Registry Numbers:

NDC 10702-056-01

**Physical Description** 

Imprint:

K 56 - The tablet is debossed with K on left and 56 on right of the bisect on one side

and plain on the other side.

Alt imprint:

K56 - The tablet is debossed with K on left and 56 on right of the bisect on one side

and plain on the other side.

Form:

Oral Tablet

Color:

Pink

Shape:

pe: Circle

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### **POISINDEX® Product List**

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**Oral Tablet** 

Color:

Pink Circle

Shape:

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#### Area Percent / Library Search Report

VKAC 1/10/11

Information from Data File:

File Name : J:\08 25 10\739638.D

Operator : KAC

Date Acquired : 25 Aug 2010 16:53

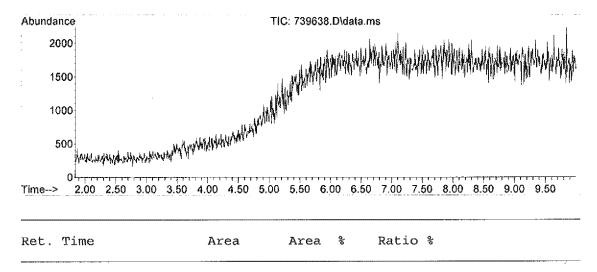
Sample Name : BLANK

Submitted by

Vial Number : 2

AcquisitionMeth: DRUGS.M

Integrator : RTE



\*\*\*NO INTEGRATED PEAKS\*\*\*

File Name : J:\08\_25\_10\739639.D

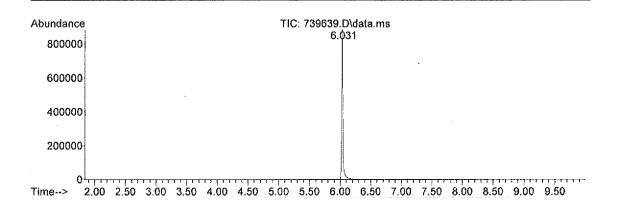
Operator : KAC

Date Acquired : 25 Aug 2010 17:05

Sample Name : OXYCODONE STD

Submitted by

Vial Number : 39 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.031	1210959	100.00	100.00

File Name : J:\08\_25\_10\739639.D

Operator : KAC

Date Acquired : 25 Aug 2010 17:05

Sample Name : OXYCODONE STD Submitted by :

Vial Number : 39 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

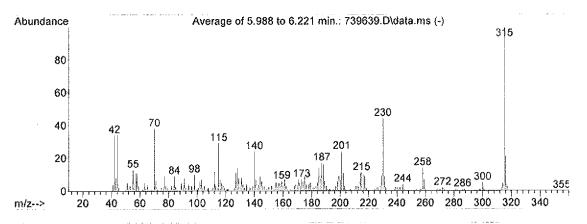
\Database\SLI.L Minimum Quality: 80 \Database\NIST05a.L Minimum Quality: 80

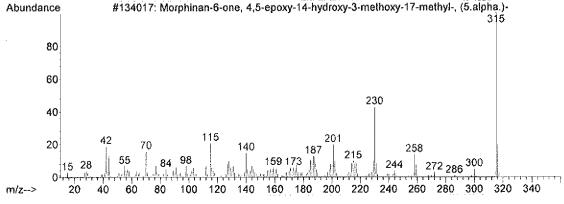
C:\Database\NIST05a.L
C:\Database\PMW\_TOX2.L

PK# RT Library/ID CAS# Qual

1 6.03 C:\Database\NIST05a.L

Morphinan-6-one, 4,5-epoxy-14-hydro 000076-42-6 99 Morphinan-6-one, 4,5-epoxy-14-hydro 000076-42-6 99 Morphinan-6-one, 4,5-epoxy-14-hydro 000076-42-6 99



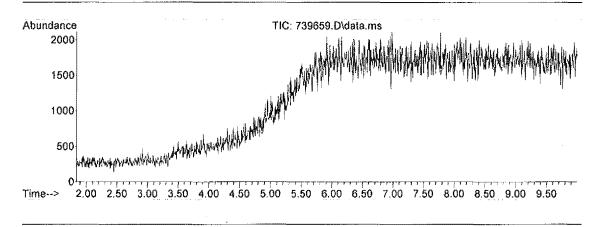


File Name : J:\08\_25\_10\739659.D

Operator : KAC

Date Acquired : 25 Aug 2010 21:18

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time

Area

Area %

Ratio %

\*\*\*NO INTEGRATED PEAKS\*\*\*

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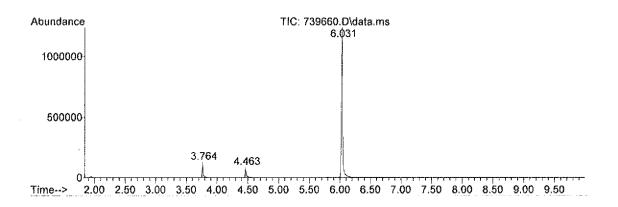
Operator : KAC

Date Acquired : 25 Aug 2010

Sample Name

: ASD 60

Submitted by Vial Number AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
3.764	150206	7.35	8.45	
4.463	115149	5.64	6.48	
6.031	1776987	87.01	100.00	

File Name : J:\08 25 10\739660.D

Operator : KAC

Date Acquired : 25 Aug 2010 21:30

Sample Name : Submitted by : ASD Vial Number : 60

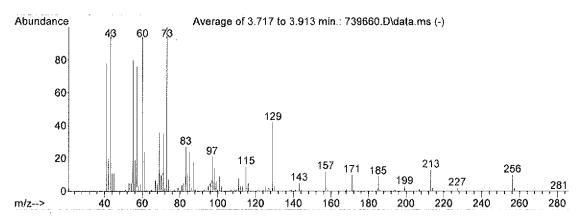
AcquisitionMeth: DRUGS.M Integrator : RTE

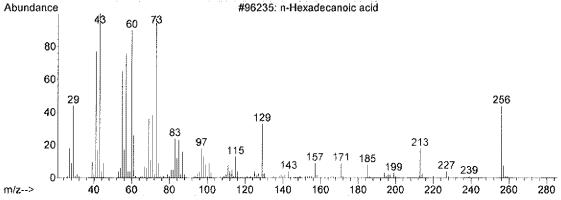
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST05a.L Minimum Quality: 80

C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.76	C:\Database\NIST05a.L		
		n-Hexadecanoic acid	000057-10-3	98
		n-Hexadecanoic acid	000057-10-3	97
		n-Hexadecanoic acid	000057-10-3	91





File Name : J:\08\_25\_10\739660.D

Operator : KAC

Date Acquired : 25 Aug 2010 21:30

Sample Name :

Submitted by : ASD
Vial Number : 60
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

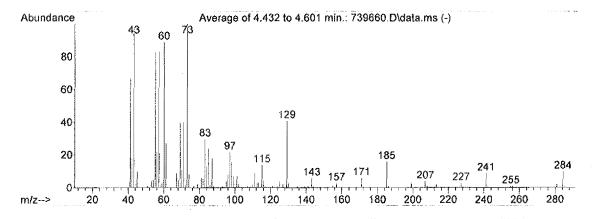
Minimum Quality: 80

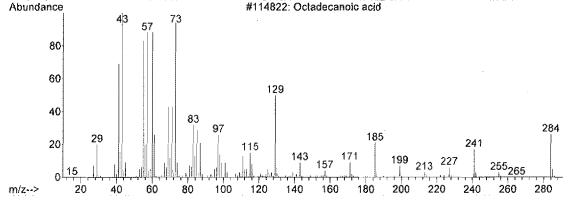
C:\Database\NIST05a.L

Minimum Quality: 80

C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.46	C:\Database\NIST05a.L Octadecanoic acid Octadecanoic acid Octadecanoic acid	000057-11-4 000057-11-4 000057-11-4	99 96 95





File Name : J:\08\_25\_10\739660.D

Operator : KAC

Date Acquired : 25 Aug 2010 21:30

Sample Name : Submitted by : ASD Vial Number : 60

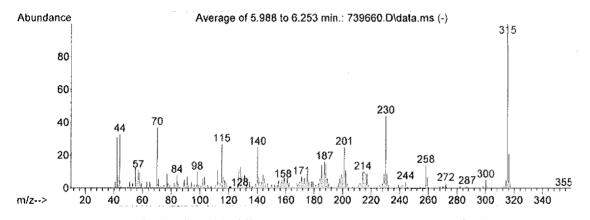
AcquisitionMeth: DRUGS.M Integrator : RTE

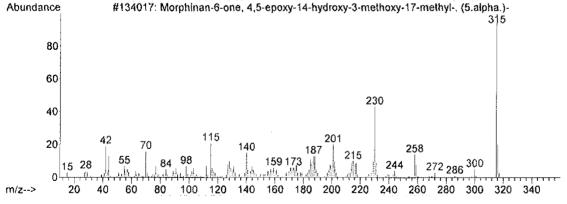
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST05a.L Minimum Quality: 80

C:\Database\PMW\_TOX2.L

	PK#	RT	Library/ID		CAS#	Qual
_	3	6.03	C:\Database\NISTO	5a.L		
			Morphinan-6-one,	4,5-epoxy-14-hydro	000076-42-6	99
			Morphinan-6-one,	4,5-epoxy-14-hydro	000076-42-6	99
			Morphinan-6-one,	4,5-epoxy-14-hydro	000076-42-6	99





File Name : J:\08\_25\_10\739671.D

Operator : KAC

Date Acquired : 25 Aug 2010 23:49

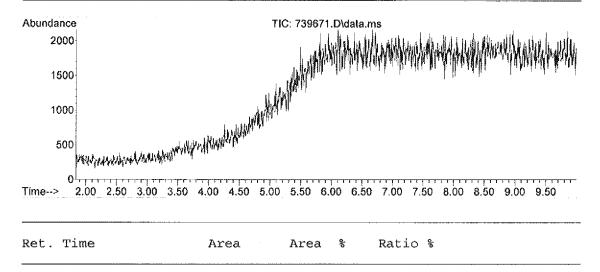
Sample Name : BLANK

Submitted by

Vial Number :

AcquisitionMeth: DRUGS.M

Integrator : RTE



\*\*\*NO INTEGRATED PEAKS\*\*\*

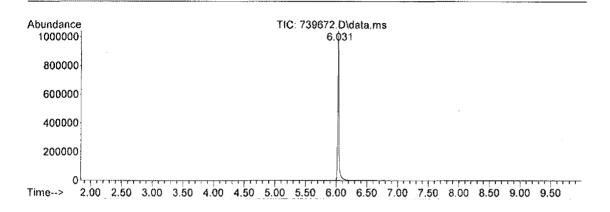
: J:\08\_25\_10\739672.D File Name

Operator : KAC
Date Acquired : 26 Aug 2010 00:02

: OXYCODONE STD Sample Name

Submitted by

Vial Number : 39 AcquisitionMeth: DRUGS.M : RTE Integrator



Ret. Time	Area		Ratio %
6.031	1446326	100.00	

```
Information from Data File:
File Name
                   : J:\08_25 10\739672.D
Operator
                   : KAC
Date Acquired
                   : 26 Aug 2010 00:02
Sample Name
                   : OXYCODONE STD
Submitted by
Vial Number
                       39
AcquisitionMeth: DRUGS.M
Integrator
                      RTE
Search Libraries:
                        C:\Database\SLI.L
                                                                Minimum Quality: 80
                        C:\Database\NIST05a.L
                                                                Minimum Quality: 80
                        C:\Database\PMW TOX2.L
   PK#
          RT
                    Library/ID
                                                                     CAS#
                                                                                   Oual
          6.03
    1
                   C:\Database\NIST05a.L
                    Morphinan-6-one, 4,5-epoxy-14-hydro 000076-42-6
                                                                                     99
                    Morphinan-6-one, 4,5-epoxy-14-hydro 000076-42-6
Morphinan-6-one, 4,5-epoxy-14-hydro 000076-42-6
                                                                                     99
                                                                                     99
Abundance
                            Average of 5.994 to 6.232 min.: 739672.D\data.ms (-)
                                                                               315
      80
      60
                                                           230
                      70
      40
                                115
                                      140
                                                    201
      20
                                                                 258
                                   128
                                                       214
                            98
                                          161 <sup>175</sup>
                                                                    272 286 300
                                                              244
                                                                                     341
                   60
                        80
m/z-->
         20
              40
                            100
                                120 140 160
                                              180 200 220 240
                                                                     280
                                                                 260
                                                                           300 320
Abundance
                #134017: Morphinan-6-one, 4,5-epoxy-14-hydroxy-3-methoxy-17-methyl-, (5.alpha.)-
      80
      60
                                                          230
      40
      20
                                                                 258
                                  128
                                                       215
                                                                    272 286 300
        15 28
```

m/z-->

20

40

80

100

120

140

160

180 200

220

240

260

280 300